

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings in the application:

Listing of Claims:

1. (Currently amended) A reactive-fine solid composite latent curing agent particle[[.]] comprising:

a. ~~one or more~~ at least one functional compounds latent curing agent A or [[its]] precursors thereof having a maximal size of less than 2 microns; adapted for synthesis, modification, curing, cross-linking, secession and/or initiating of polymerization of polymers at a temperature above 100°C, and

b. ~~one or more~~ at least one inert particles particle B having a ~~least the~~ maximal size of 2 microns carrying said functional compounds ~~A latent curing agent A on at least one of an at the~~ outer surface ~~and/or in its and an~~ inner portion thereof; wherein a weight ratio of said at least one latent curing agent said compounds A to said inert particles B weight ratio is ranging ranges from 0.01 A:100B to 50A:100B;

wherein said at least one latent curing agent is selected from the group consisting of a urea derivative, an imidazole, a dicyandiamide, mixtures thereof and a precursor thereof.

2. (Currently amended) The reactive-fine solid composite latent curing agent particle according to claim 1 adapted configured for curing thermoset thermoset polymers; wherein at least a portion of the functional compounds are curing agents or the at least one latent curing agents agent is adapted to initiate cross linking and/or polymerization of said thermoset polymers.

Claims 3-16 (Cancelled)

17. (New) A solid composite latent curing agent particle according to claim 1, comprising a core comprising said at least one inert particle coated by a layer comprising the at least one latent curing agent.

18. (New) A solid composite latent curing agent particle according to claim 1, wherein said at least one inert particle comprises a component selected from the group consisting of barium sulfate, talc, silica, kaolin, mica and glass.
19. (New) A solid composite latent curing agent particle according to claim 1, wherein said at least one latent curing agent comprises dicyandiamide (DICY).
20. (New) A solid composite latent curing agent particle according to claim 19, wherein said at least one inert particle comprises barium sulfate.
21. (New) A solid composite latent curing agent particle according to claim 1, wherein said at least one latent curing agent is in a crystalline form.
22. (New) A solid composite latent curing agent particle according to claim 1, wherein latent curing agent is adapted for activation at temperatures above 120°C.
23. (New) A solid composite latent curing agent particle according to claim 1, wherein said at least one inert particle has a specific surface area in a range of 1-50m²/g.
24. (New) A solid composite latent curing agent particle according to claim 1, wherein the at least inert particle is in a size range of 0.05 to 1 micron.
25. (New) A solid composite latent curing agent particle according to claim 1, wherein the maximal size of said solid composite latent curing agent particle is 2 microns.